

Conductive Paint
ESM 500cb

EDOGAWA GOSEI CO., LTD.

○ Product Summary

Static electricity is the enemy of many electronic devices. Our “ELE-EARTH ESM 500cb” conductive paint adds excellent antistatic property to the substrate and protects your devices from glitches caused by static charge.

○ Functionality

- Stable, long-lasting conductivity
- Better adhesion and impact resistance

○ Intended Use

Conductive coating for various metals

○ Composition

Polyester resin, organic solvent, conductive materials, additives

○ Use and Application

- Agitation
Provide sufficient agitation before use to disperse the sediment.
- Mixing
Use 10 parts of base to 2-4 parts of thinner by weight.
Use our Thinner 2500 S.
- Drying

Set-to-touch	15 min. at 20°C
Dry-hard	30 min. at 150°C
- Film Thickness
Standard film thickness: 30±5µm

○ Film Performance

Test Item	Test Condition	Result
Adhesion	Cross-cut test SPCC steel plate	100/100
	Cross-cut test Bonderized steel plate	100/100
	Cross-cut test Zinc phosphate-treated steel plate	100/100
	Cross-cut test Aluminum plate A1050P	100/100
	Cross-cut test SUS304-2B plate	100/100
	Cross-cut test SUS316-2B plate	100/100
Drawing Test	Drawing test equipment 1cmφ x 1kg	○
Chip Resistance	Dupont impact tester 500g 40cm	○
Conductivity Test	Multimeter surface resistance	500±200Ω
Solvent Resistance	Number of fixed-force (500g) rubbings (double action) with lacquer thinner	over 50 rubbings
Alcohol Resistance	Number of fixed-force (500g) rubbings (double action) with IPA	over 50 rubbings
Salt Spray Test	Salt spray tester 5% NaCl solution (ambient temp. 35°C, 95% humidity, 24 hours)	rust width from cut part: 1mm \geq

- * Phosphate-treated plates were used in all but adhesion test.
- * These results do not necessarily guarantee the quality and performance of our product under all conditions.

○ Precautions

- Follow the painting process and monitor film thickness to obtain a stable surface resistance value.
- Read and follow MSDS before use.
- Mixing with other company's thinner may cause the pigments to separate from resin and compromise its performance.
- Completely degrease the substrate.
- This product is for indoor use. Do not use outdoor and avoid direct sunlight.

○ Size

ESM 500cb

- 16kg (Minimum Order Quantity 96kg (16kg×6cans))

Thinner 2500 S

- 16L